

CLAIMS

What is claimed is:

1. A bus assembly for switchgear comprising a pair of elongated members each of an L-shaped cross section with a lateral side and a transverse side integral with said lateral side;

said elongated members being positioned in a juxtaposed spaced apart relationship forming a hollow rectangular tube, wherein said sides are generally parallel to each other and said transverse sides are generally parallel to each other; and support members supporting said elongated members in said juxtaposed position.

2. A bus assembly according to claim 1, wherein said support members are connected to said lateral sides.

3. A bus assembly according to claim 2, wherein said support members comprise a U-shaped component engaging lateral exterior sides of said elongated members.

4. A bus assembly according to claim 3 wherein said U-shaped member is connected to an element having flange which extends from a bight of said U-shaped component for connection to at least one horizontal bus bar.

5. A connecting device for joining vertical and horizontal bus bars comprising a first U-shaped member having legs adapted to engage the exterior lateral surfaces of a vertical bus member,

a second U-shaped member having a leg attached to a bight of said first U-shaped member and a second leg extending away from said first U-shaped member adapted for attachment to a horizontal bus member.

6. A connecting device according to claim 5, wherein said second leg is provided with perforations adapted for securement thereto of said horizontal bus member.

7. A connecting device according to claim 5 that is provided with a third U-shaped extending member which has an extending leg spaced from said extending leg of said second member, each of said extending legs being adapted for attachment to a component of a laminated horizontal bus member.
8. A horizontal bus comprising a plurality of laminated components, said components being parallel and spaced apart from each other.
9. A horizontal bus member according to claim 8, wherein each of said components comprises a plurality of conductive layers all parallel to each other and separated by non-conductive spacer members.
10. A connector between a vertical bus and a horizontal bus comprising:
 - a first U-shaped member adapted to engage the opposite lateral sides of the vertical bus member;
 - a second U-shaped member fitted between the bight portion of said first U-shaped member and said vertical bus, said second U-shaped member having a free end spaced from said vertical bus;
 - at least one fastener extending through at least one aperture extending through said second U-shaped member and terminating at a location between the ends of said second U-shaped member for supporting at least one lamina of a horizontal bus member and at least one fastener passing through at least one aperture in said free end of said second U-shaped member for supporting at least one lamina of a horizontal bus member engaging an outer surface of said second U-shaped member.
11. A connector according to claim 10 wherein each of said fasteners is adapted to support a plurality of laminae which comprise a horizontal bus member.
12. A connector according to claim 11 wherein said laminae are separated by layers of non-conductive material.

13. A bus assembly for switchgear comprising a pair of vertically oriented elongated members each of an L-shaped cross section with a lateral side and a transverse side integral with said lateral side;

 said elongated members being positioned in a juxtaposed spaced apart relationship forming a hollow rectangular tube wherein said sides are generally parallel to each other and said transverse sides are generally parallel to each other; and

 said members being connected for electrical current flow to a horizontal bus member formed by a plurality of electrically conductive laminae;

 a connector between the elongated members and said horizontal bus member comprising

 a first U-shaped member adapted to engage opposite lateral sides of the vertical elongated members;

 a second U-shaped member having an end fitted between a bight portion of said first U-shaped member and said one of said elongated members, said second U-shaped member having a free end spaced from said elongated member; and

 at least one fastener extending through at least one aperture extending through said first U-shaped member and terminating at a location between ends of said second U-shaped member supporting at least one lamina of said horizontal bus member and at least one fastener passing through at least one aperture in said free end of said second U-shaped member supporting at least one lamina of a horizontal bus member engaging an outer surface of said second U-shaped member.

14. A bus assembly according to claim 13 wherein a plurality of laminae of said horizontal member are supported on each of said fasteners.

15. A bus assembly according to claim 14 wherein said laminae are separated by layers of non-conductive material.

16. A bus assembly according to claim 13 wherein said fasteners are press fit bolts.